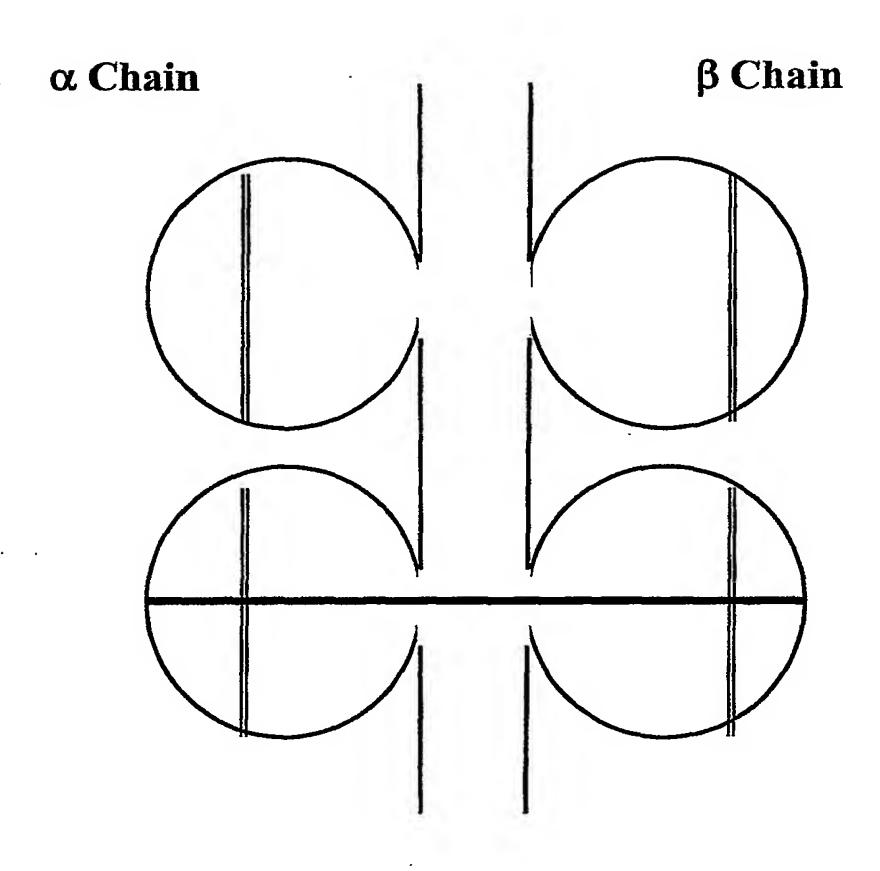
Figure 1



== Native intra-chain disulphide bond

Non-native interchain disulphide bond

TCR domain

Figure 2a

Figure 2b

53

3/81

Figure 3a

MQ

K1EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS

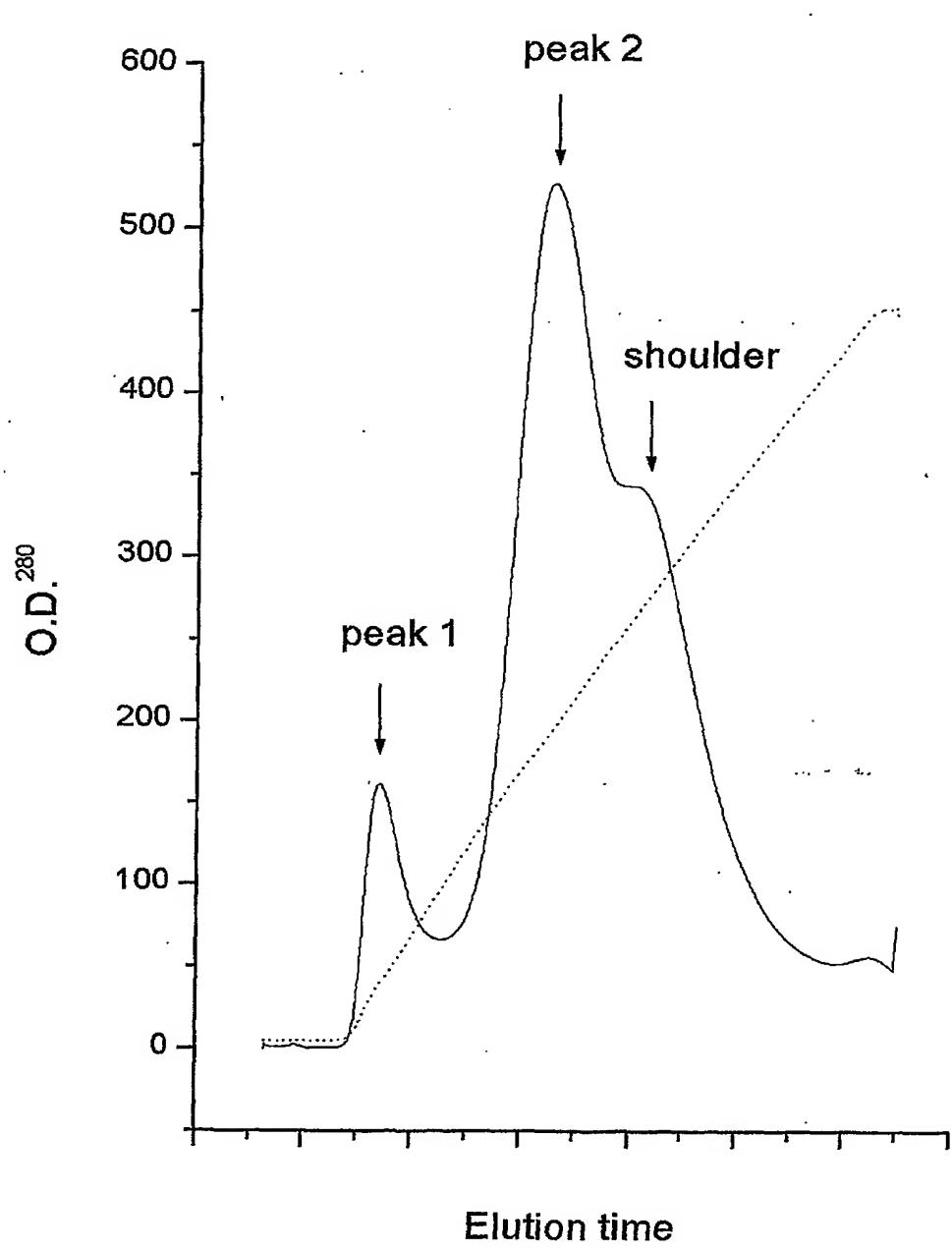
DVYITDKCVL DMRSMDFKSN SAVAWSNKSD FACANAFNNS LIPEDTFFPS

PESS*

Figure 3b

M $N_1AGVTQTPKF$ QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG RPEQYFGPGT RLTVTEDLKN VFPPEVAVFE PSEAEISHTQ KATLVCLATG FYPDHVELSW WVNGKEVHSG VCTDPQPLKE QPALNDSRYA LSSRLRVSAT FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*

Figure 4



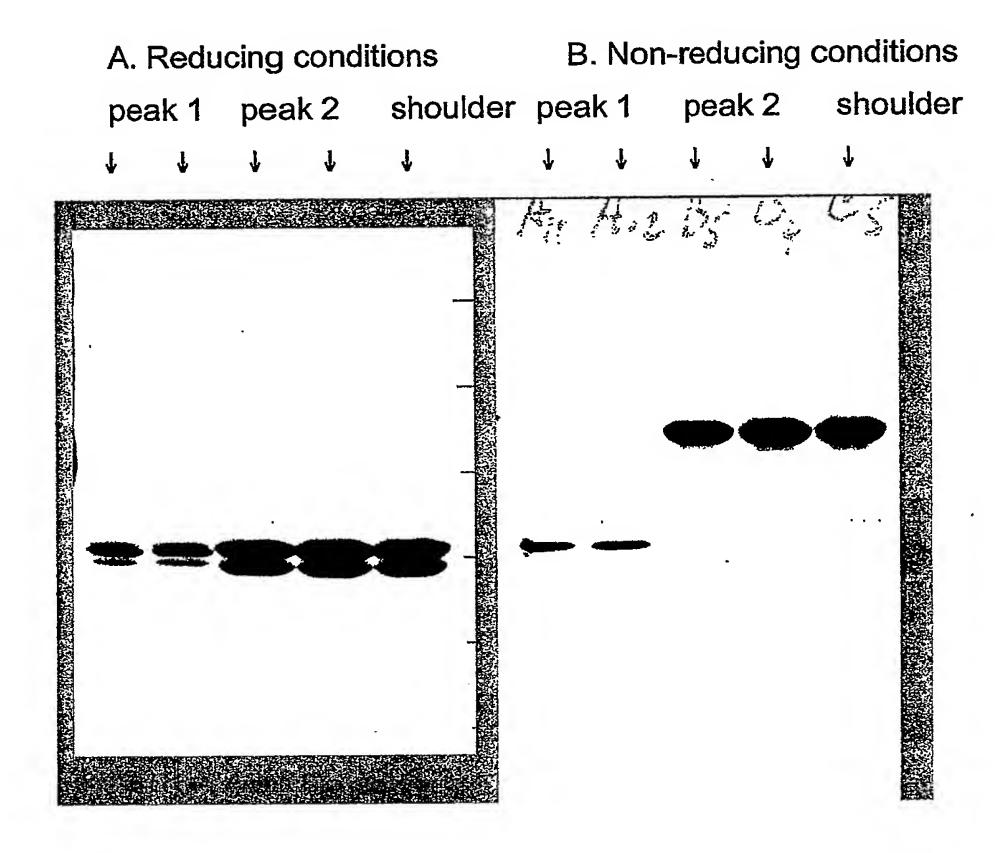


Figure 5

Figure 6

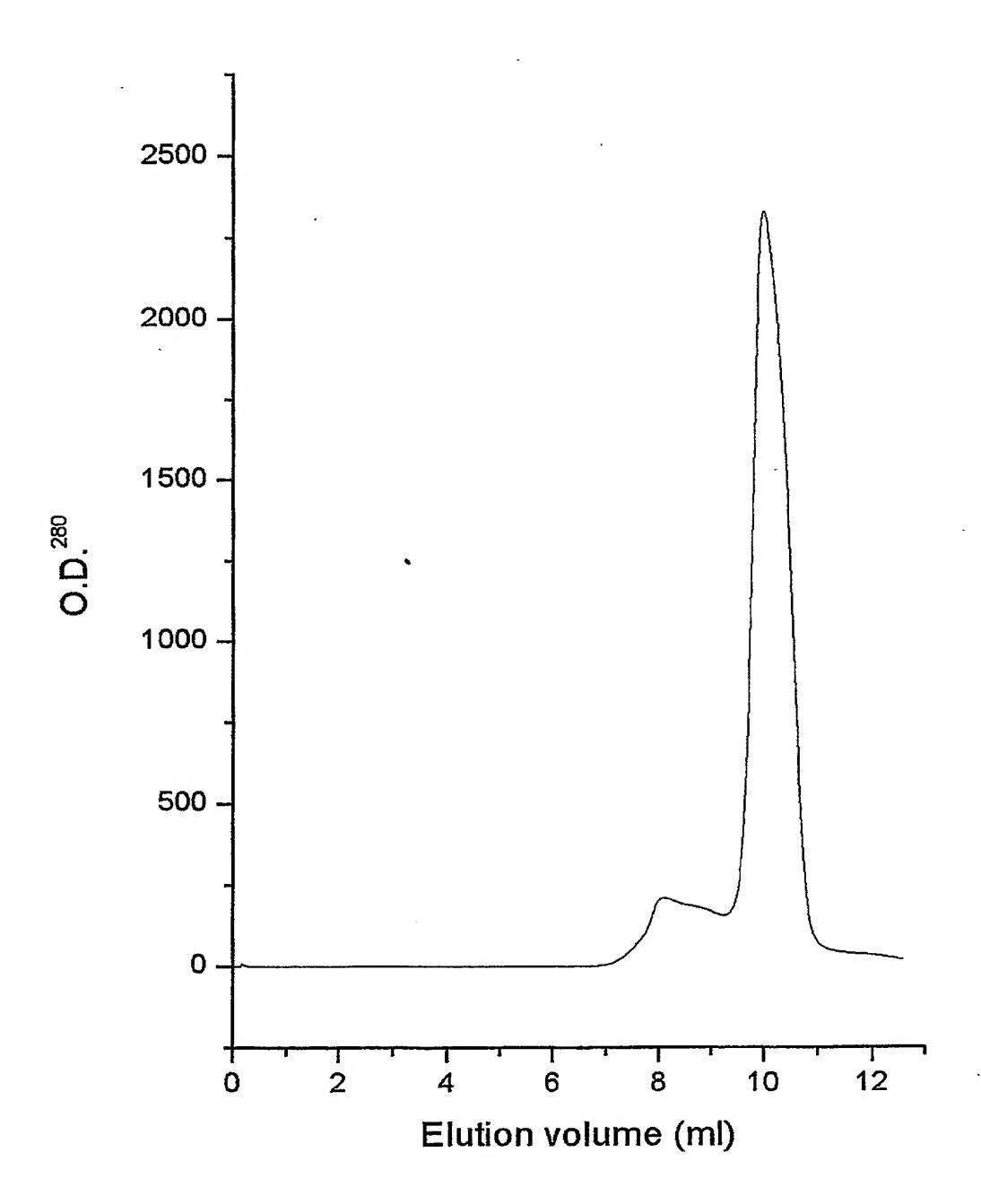


Figure 7

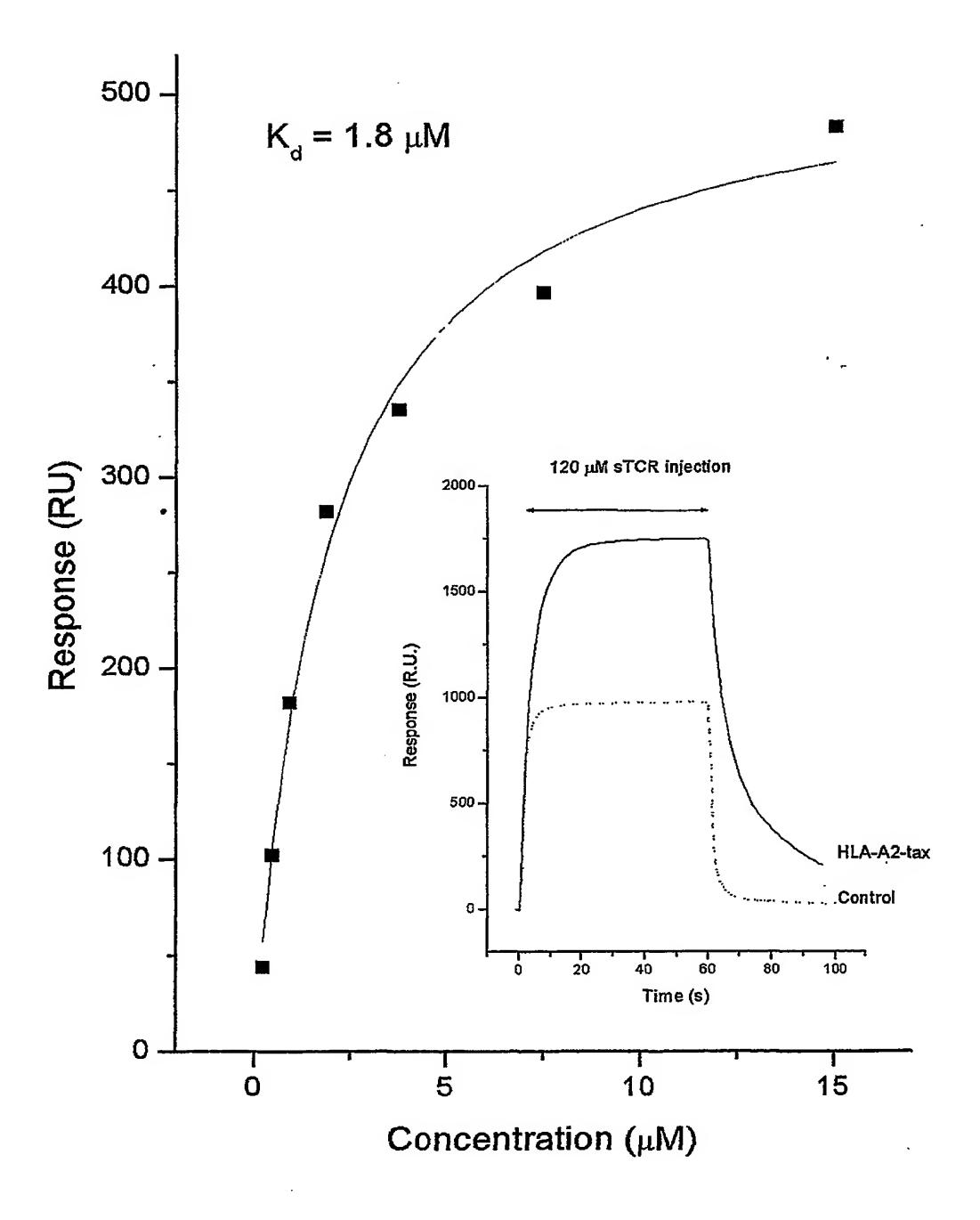


Figure 8a

Figure 8b

Figure 8c

Figure 9a

MQLLEQSPQFLSIQEGENLTVYCNSSSVFSSLQWYRQEPGEGPVLLVTVVTGGEVKKLKRLTFQFGDARKDSSLHITAAQPGDTGLYLCAGAGSQGNLIFGKGTKLSVKPNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSStop

Figure 9b

MVDGGITQSPKYLFRKEGQNVTLSCEQNLNHDAMYWYRQDPGQGLRLIYYSQIVNDFQKGDIAEGYSVSREKKESFPLTVTSAQKNPTAFYLCASSSRSSYEQYFGPGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYSLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADStop

Figure 10

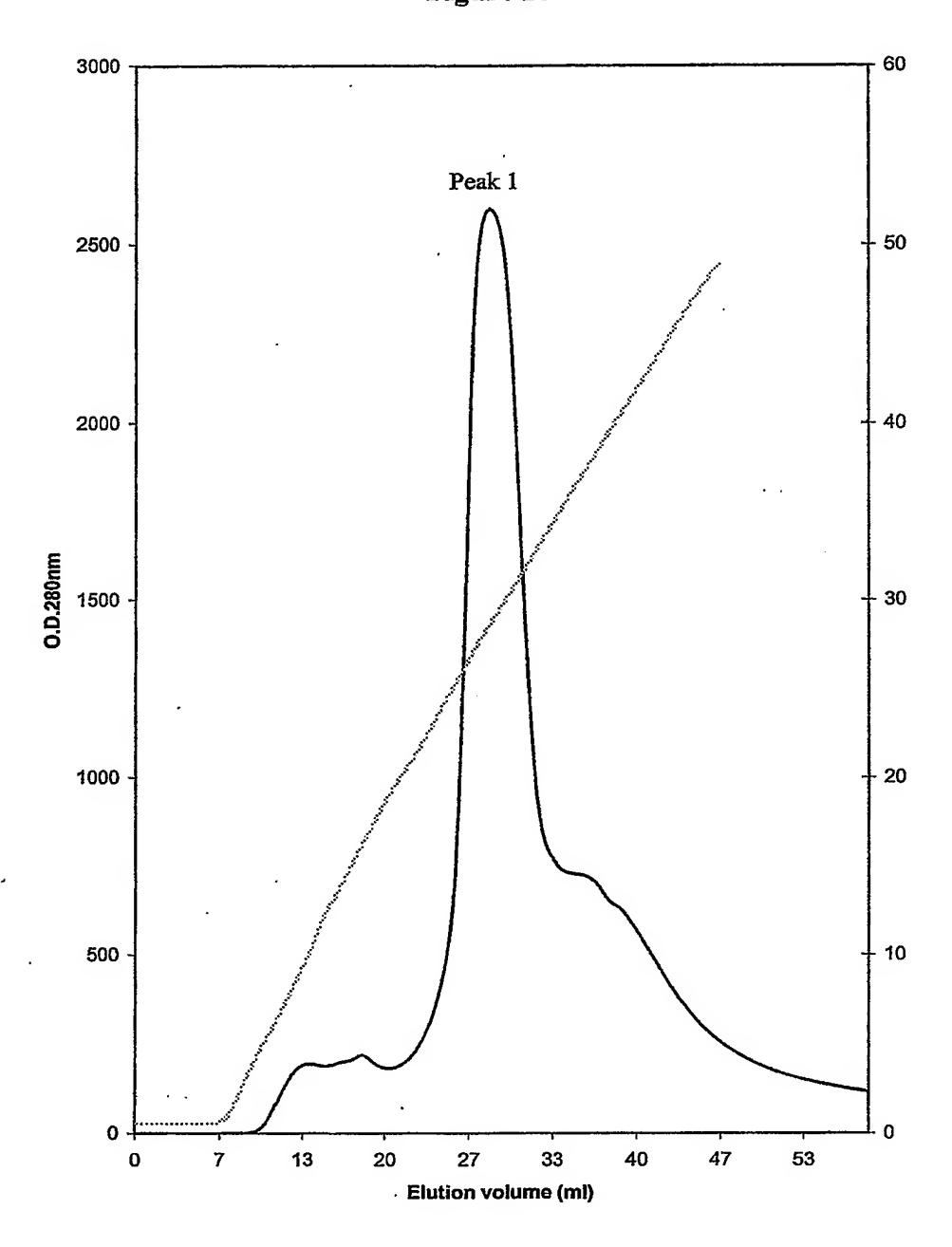


Figure 11

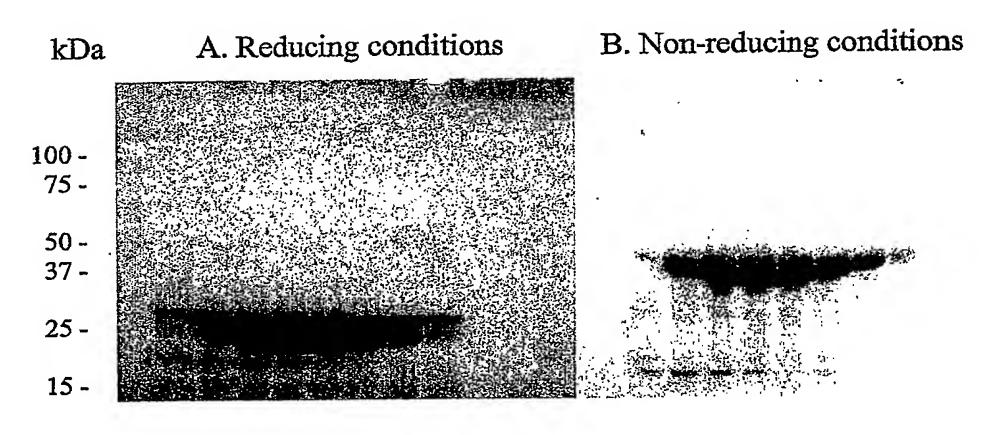


Figure 12

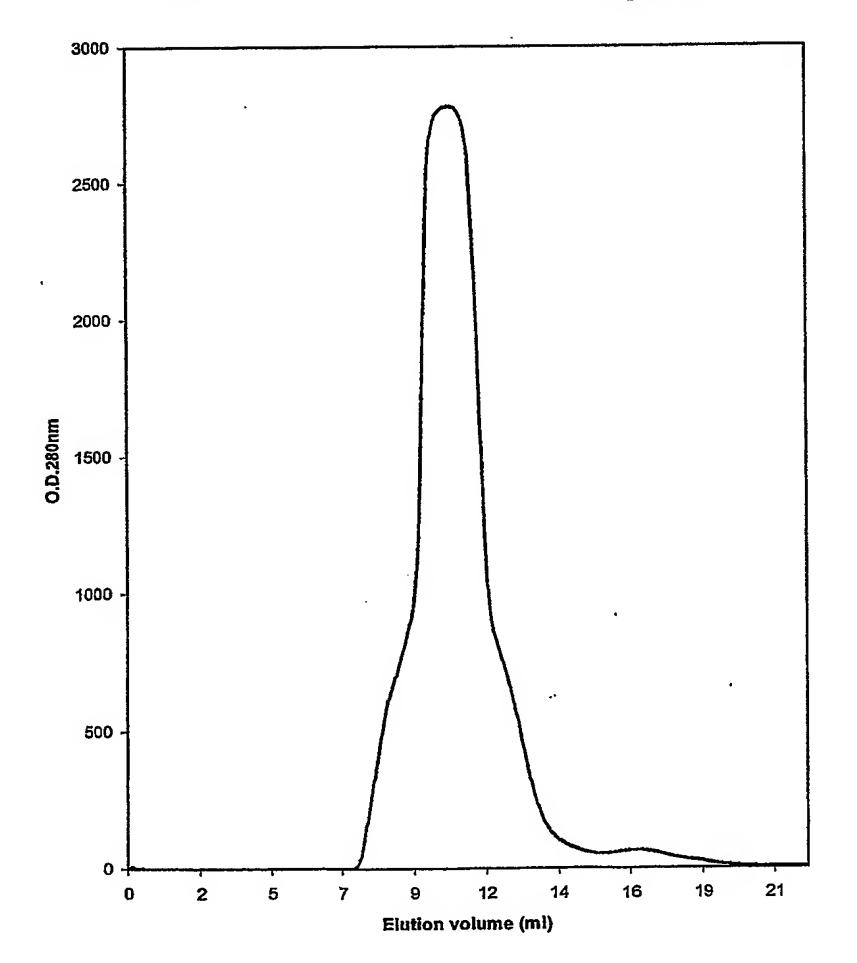


Figure 13a

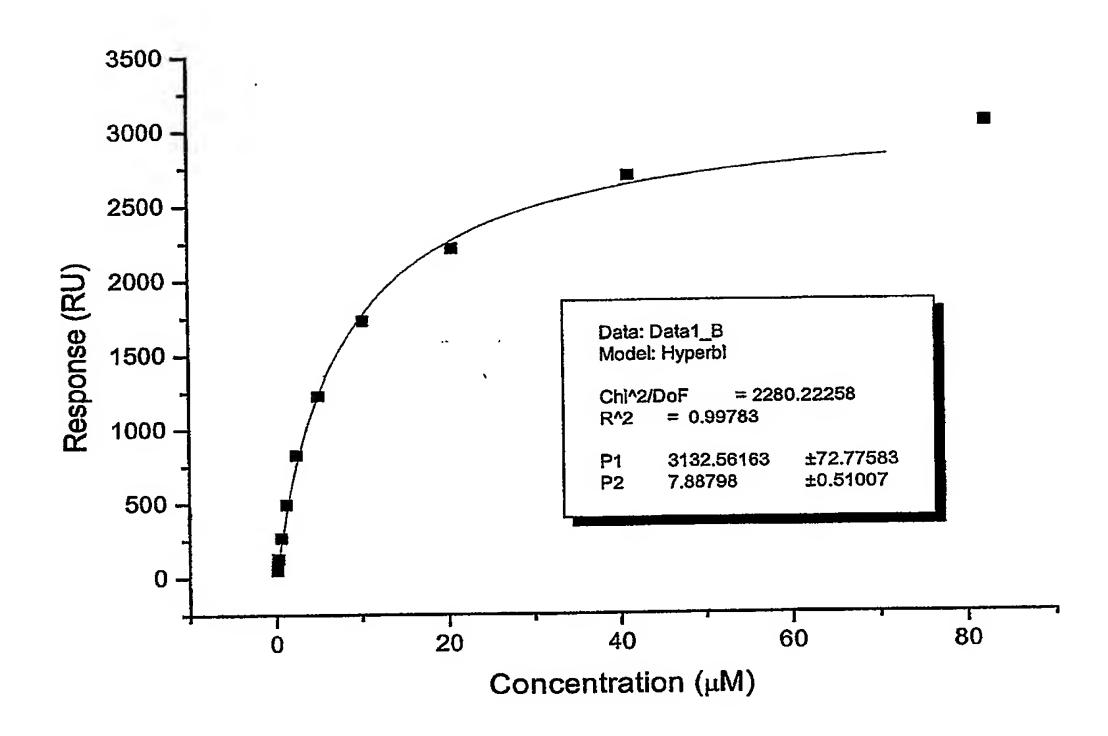


Figure 13b

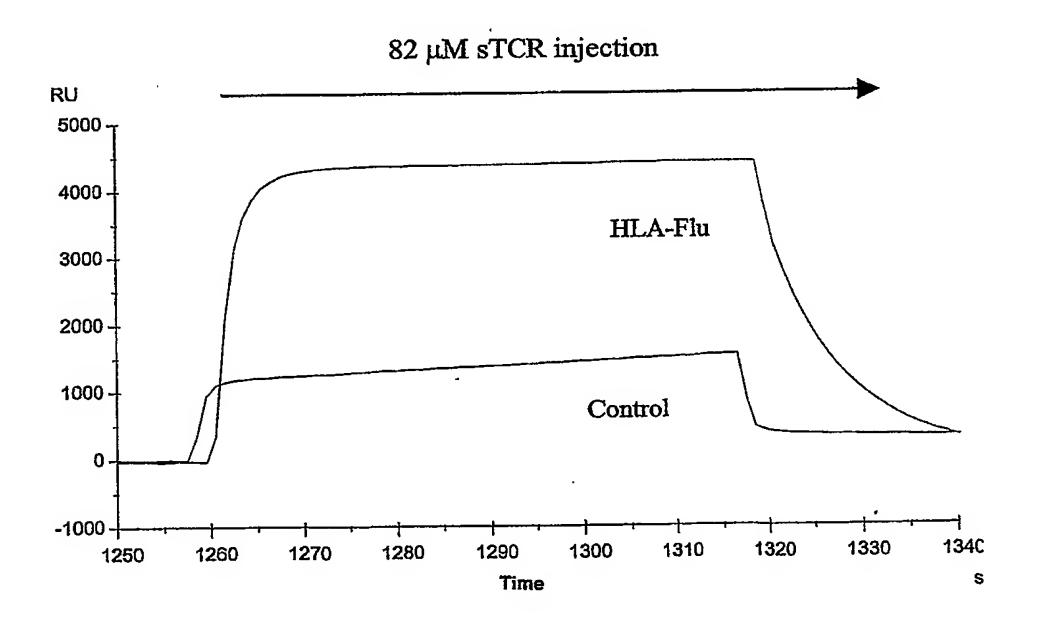


Figure 14a

Figure 14b

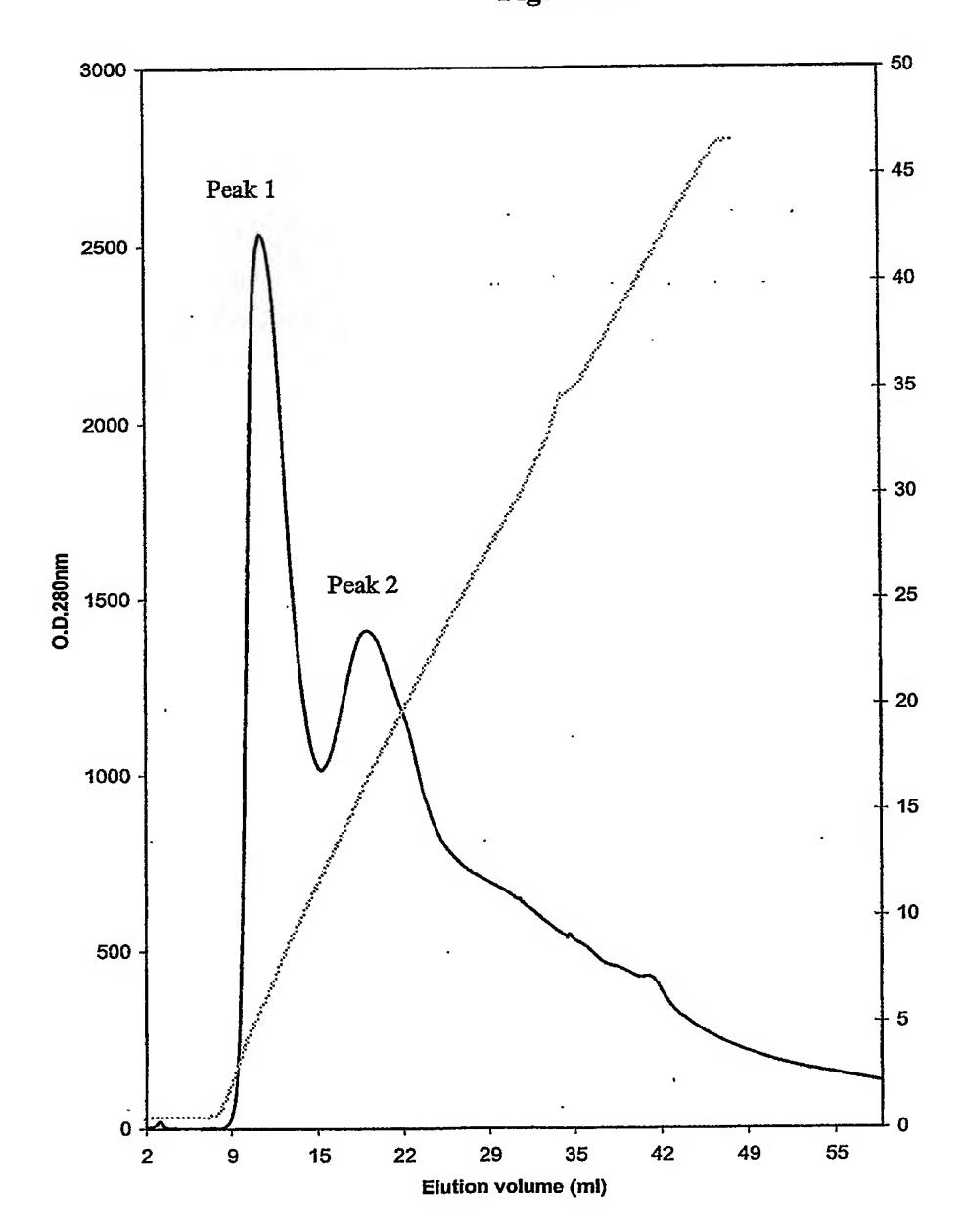
Figure 15a

MQEXTQIPAALSVPEGENLVLNCSFTDSAIYNLQWFRQ DPGKGLTSLLLIQSSQREQTSGRLNASLDKSSGRSTLYI AASQPGDSATYLCAVRPTSGGSYIPTFGRGTSLIVHPYI QNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDS DVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAF NNSIIPEDTFFPSPESSStop

Figure 15b

MGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMetGLRLIHYSVGAGITDQGEVPNGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNTGELFFGEGSRLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYALSSRLRVSATFWQDPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADStop

Figure 16



10-

Figure 17

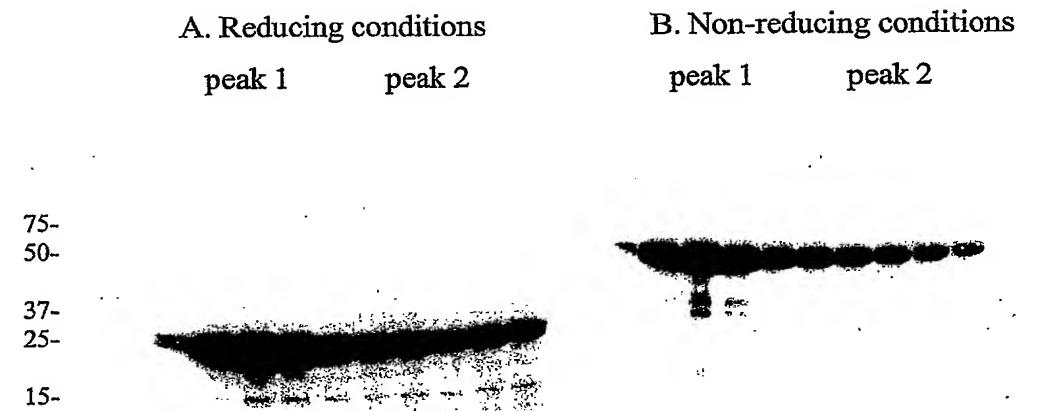


Figure 18

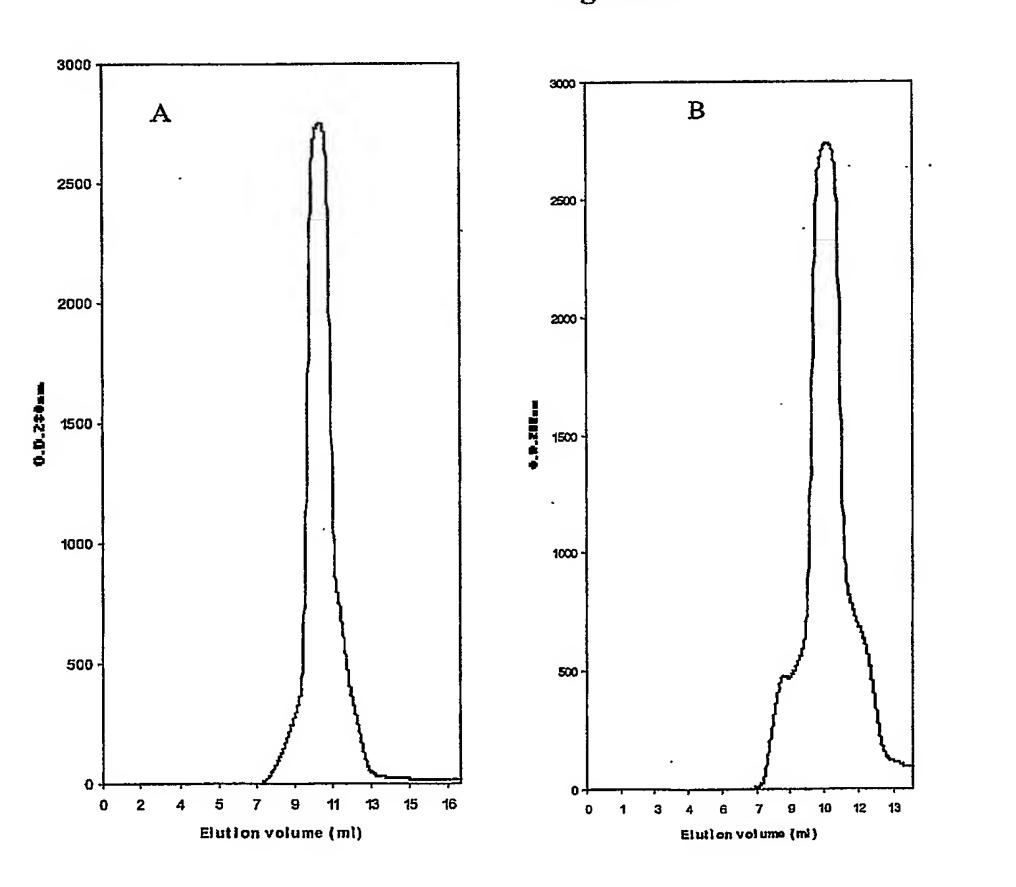


Figure 19a

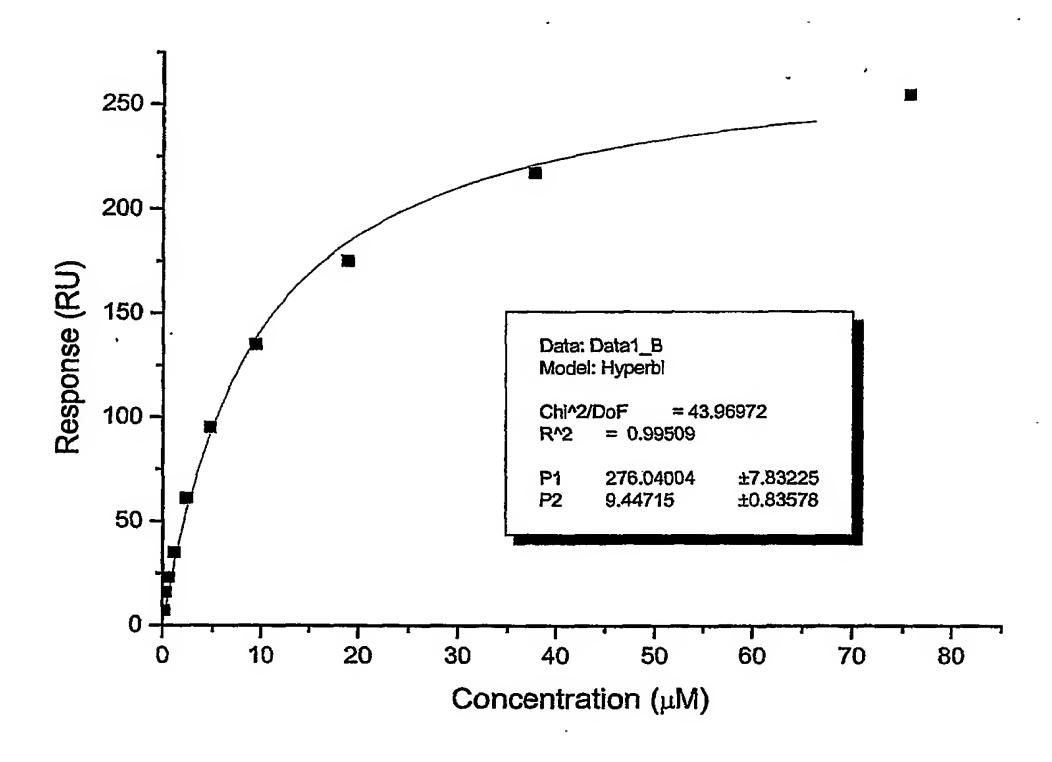


Figure 19b

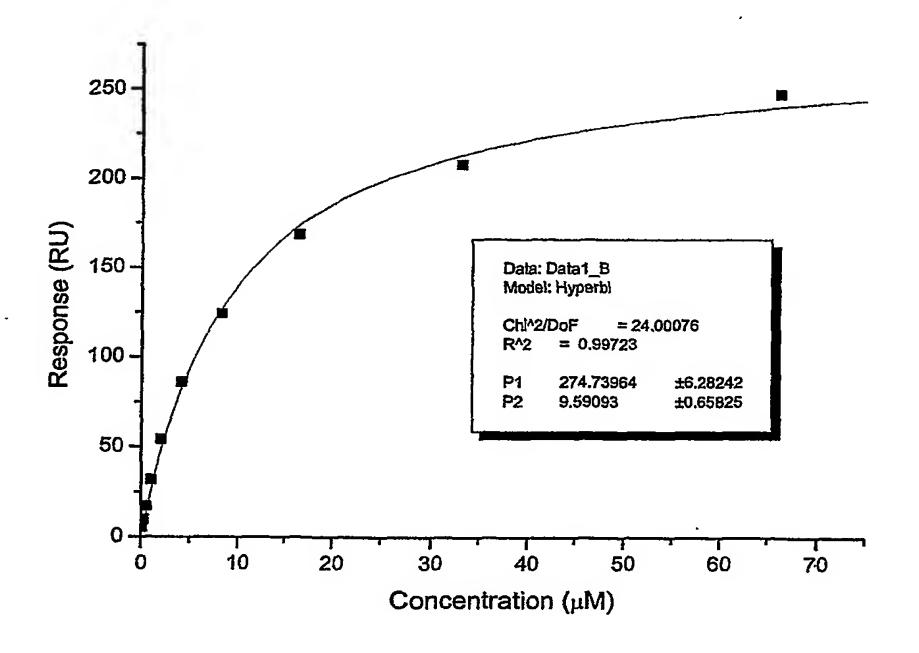


Figure 20a

Figure 20b

Figure 21a

MQEXTQIPAALSVPEGENLVLNCSFTDSAIYNLQWFRQDPGKGLTSLLLIQSSQREQTSGRLNASLDKSSGRSTLYIAASQPGDSATYLCAVRPTSGGSYIPTFGRGTSLIVHPYIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCStop

Figure 21b

MGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQ DPGMGLRLIHYSVGAGITDQGEVPNGYNVSRSTTEDFP LRLLSAAPSQTSVYFCASSYVGNTGELFFGEGSRLTVLE DLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDH VELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYALSS RLRVSATFWQDPRNHFRCQVQFYGLSENDEWTQDRAK PVTQIVSAEAWGRADCStop

Figure 22

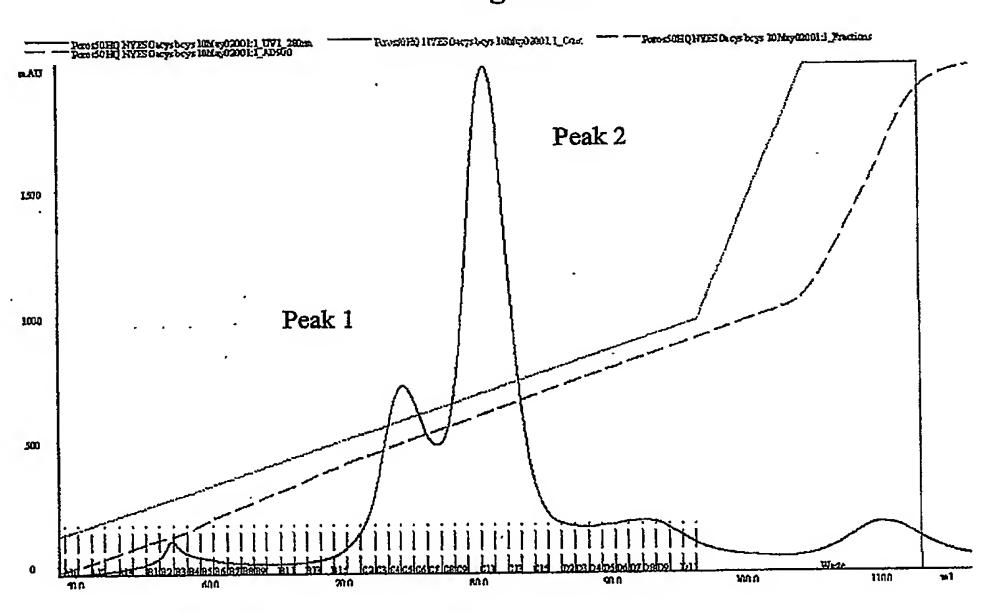


Figure 23

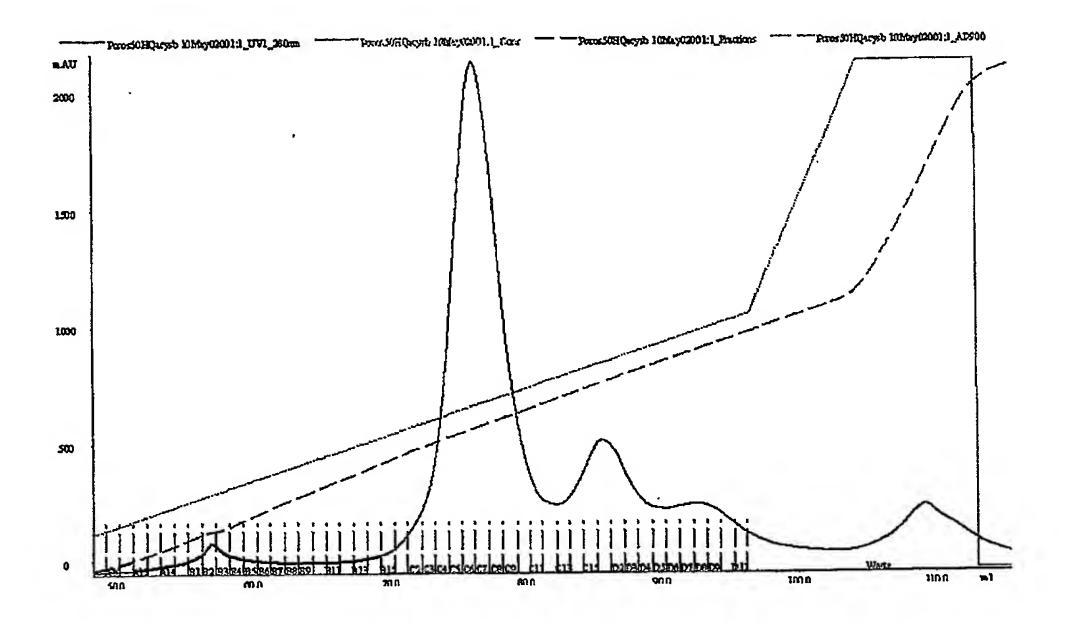


Figure 24

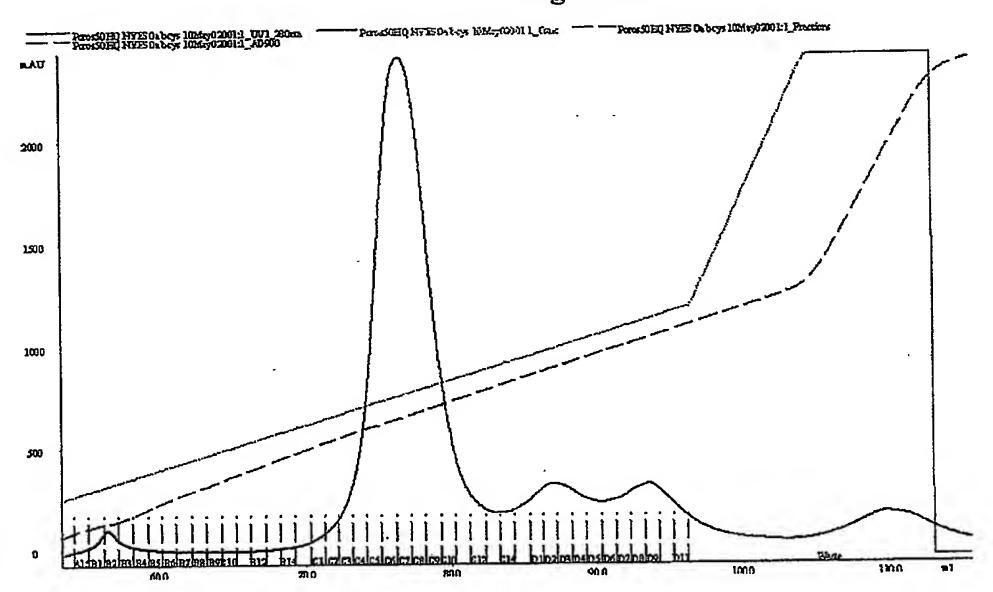


Figure 25

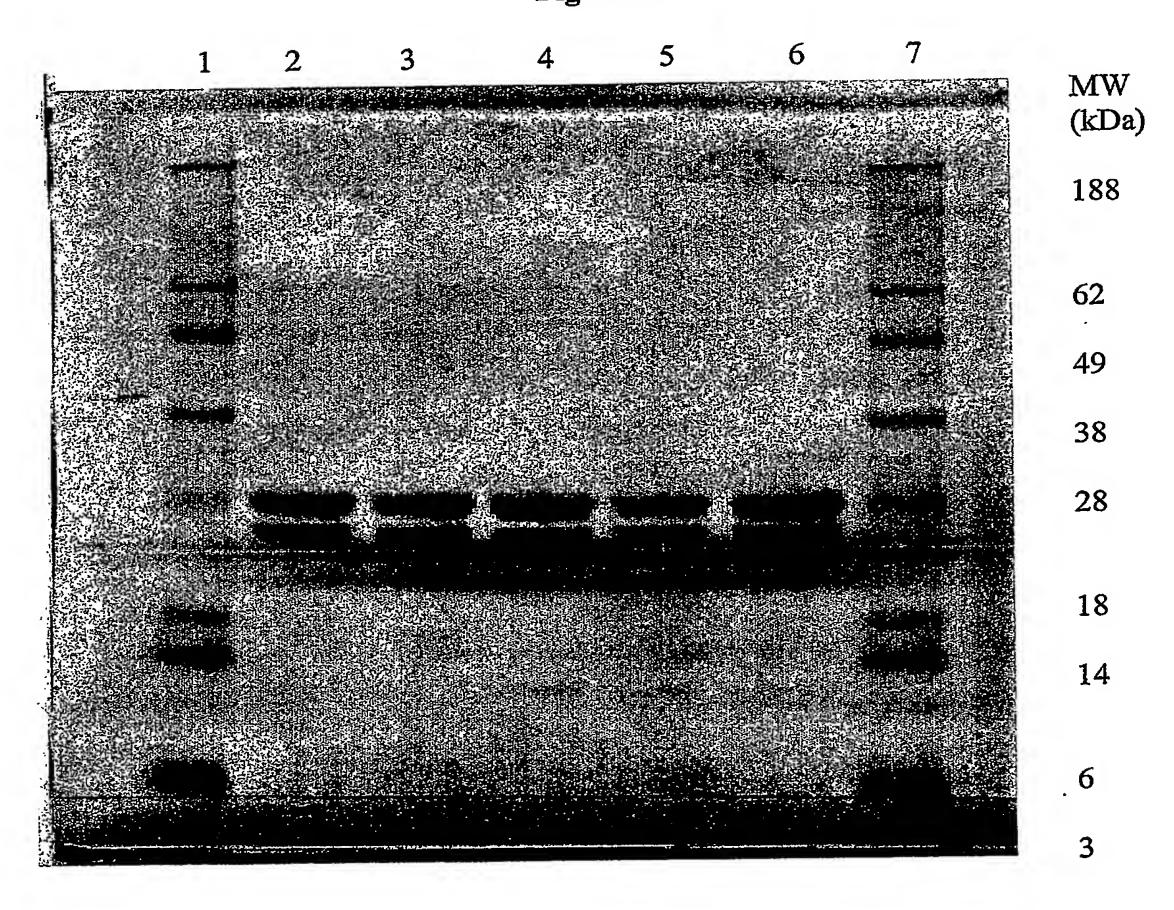


Figure 26

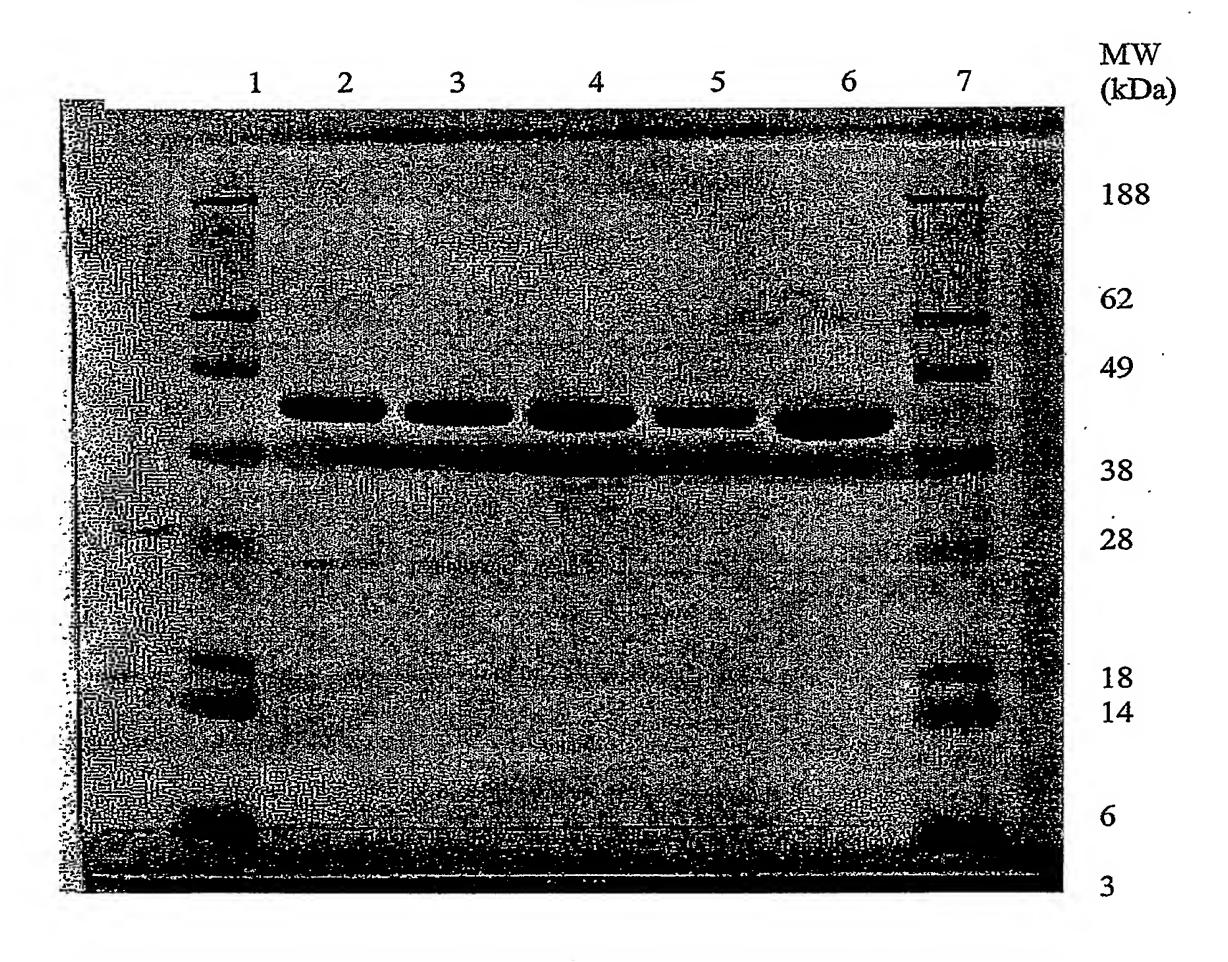


Figure 27

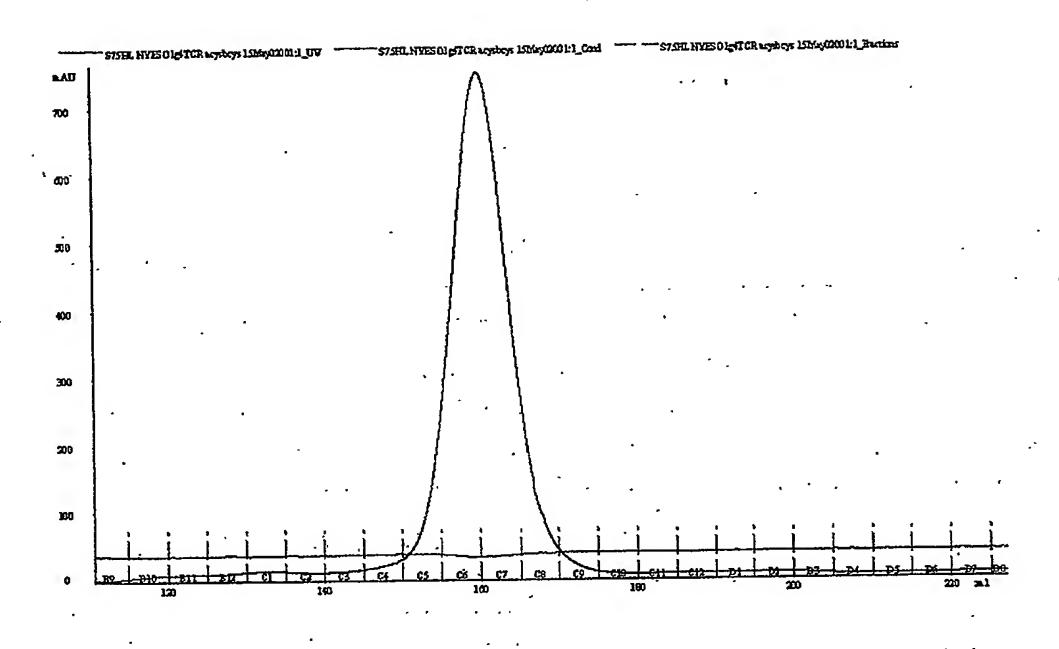


Figure 28

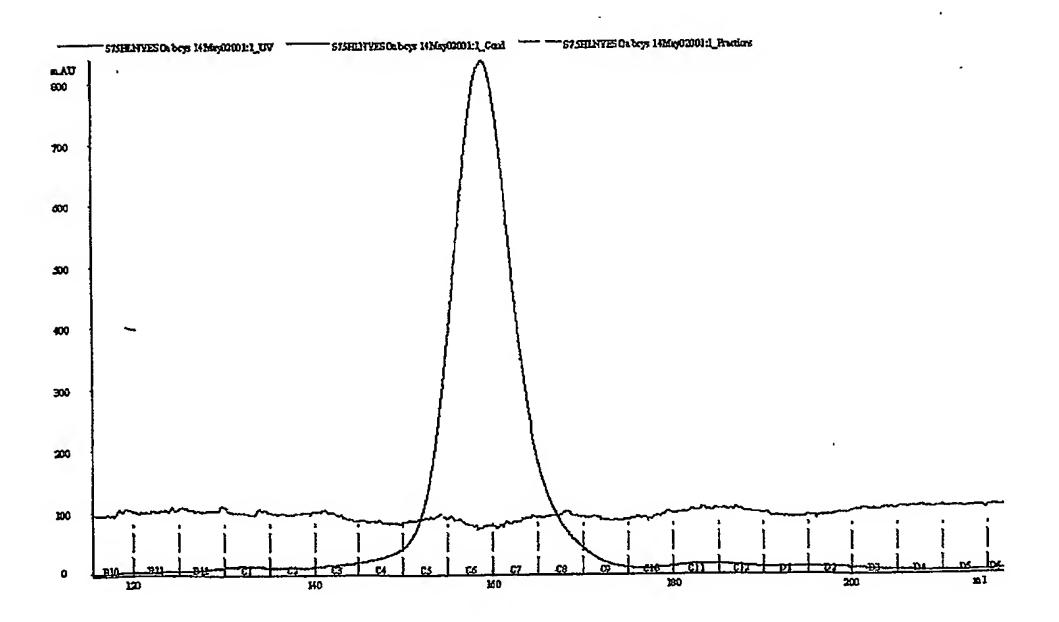


Figure 29

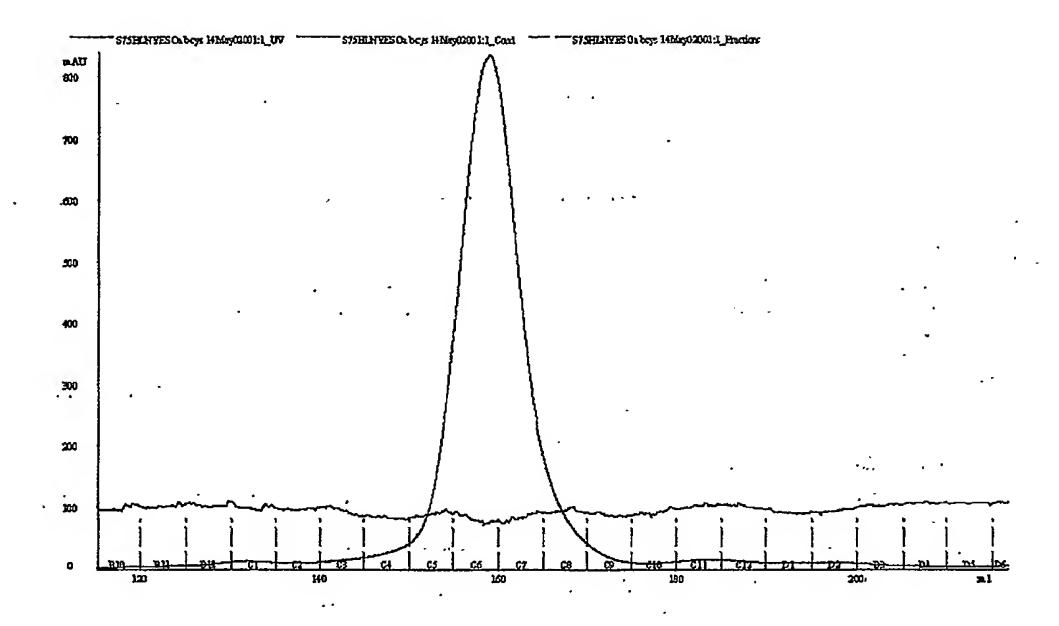


Figure 30

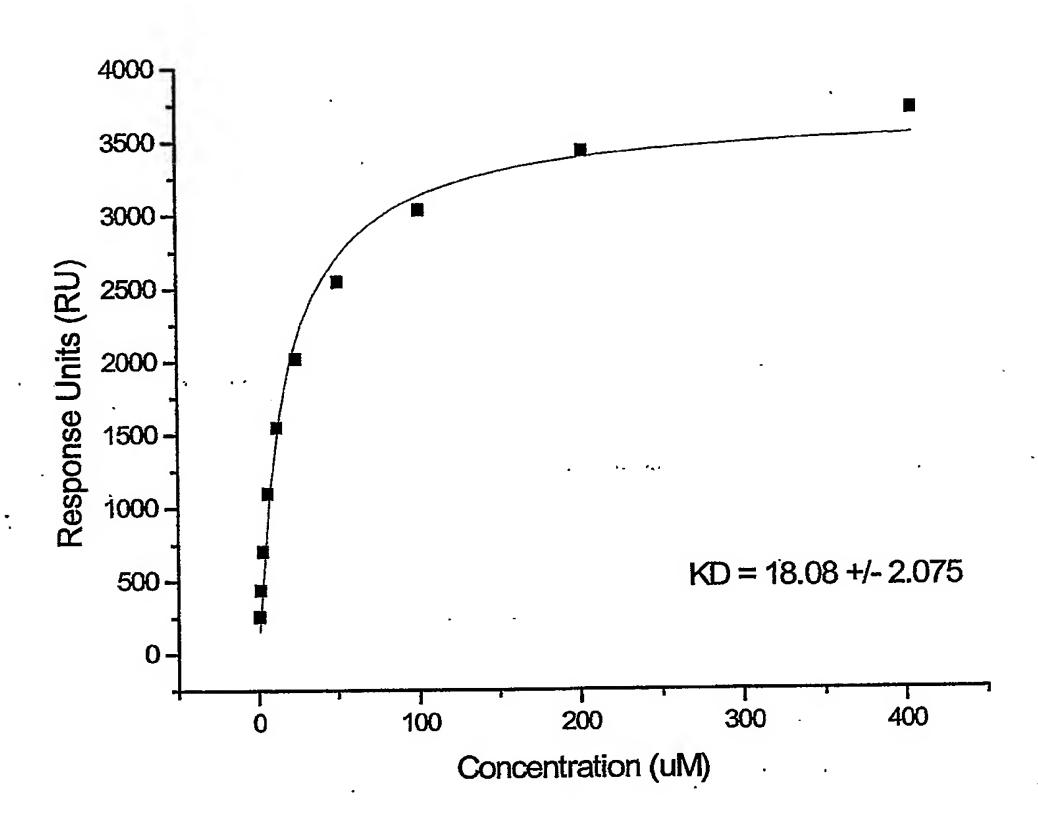


Figure 31

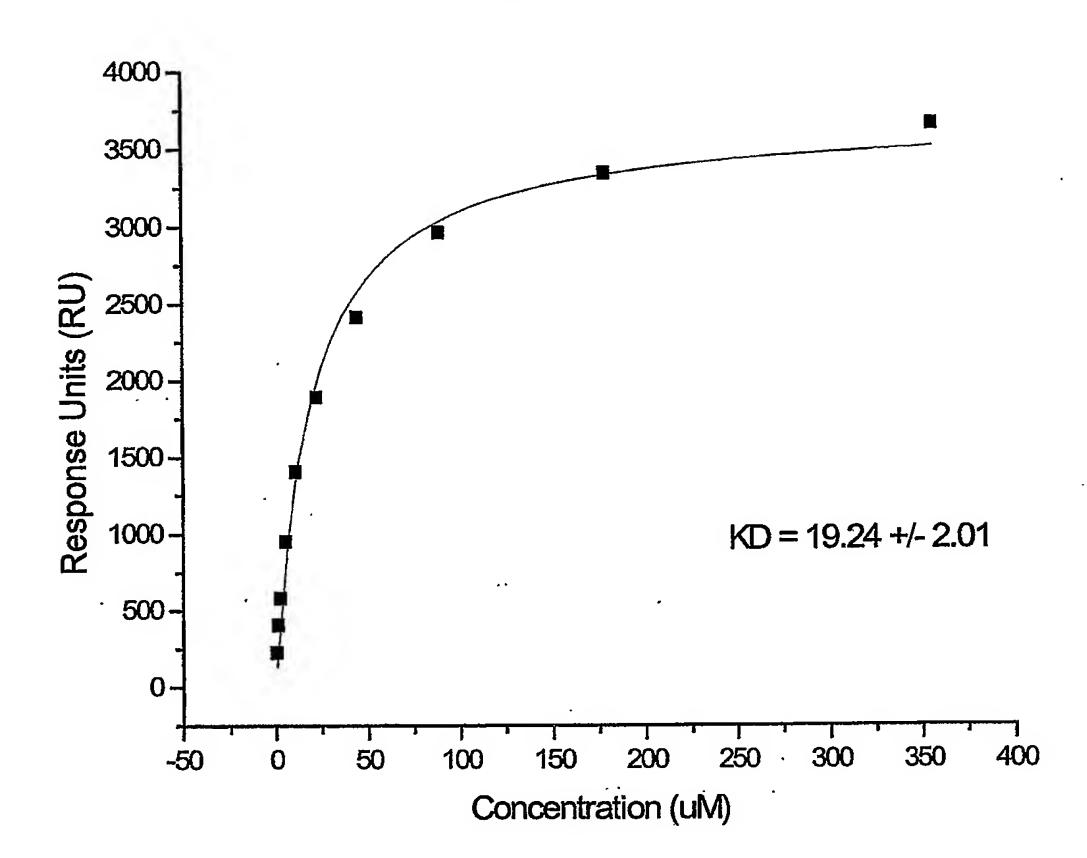


Figure 32

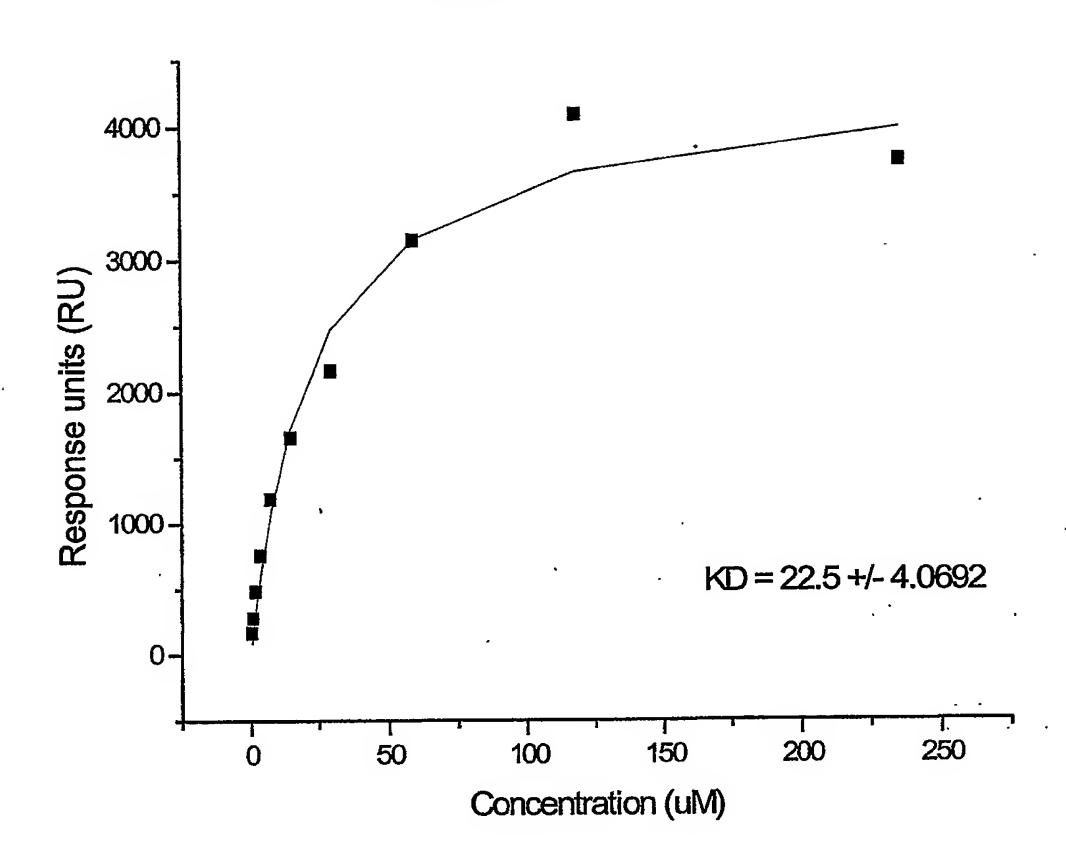


Figure 33a

Figure 33b

Figure 34a

MKEVEQNSGPLSVPEGAIASLNCTYSDRGSQSFFWYRQYS GKSPELIMFIYSNGDKEDGRFTAQLNKASQYVSLLIRDSQP SDSATYLCAVKGGSGGYQKVTFGTGTKLQVIPNIQNPDPA VYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKC VLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFF PSPESSStop

Figure 34b

MGVMQNPRHLVRRRGQEARLRCSPMKGHSHVYWYRQLP EEGLKFMVYLQKENIIDESGMPKERFSAEFPKEGPSILRIQ QVVRGDSAAYFCASSPQTGGTDTQYFGPGTRLTVLEDLKN VFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSW WVNGKEVHSGVCTDPQPLKEQPALNDSRYALSSRLRVSAT FWQDPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAE AWGRADStop

Figure 35

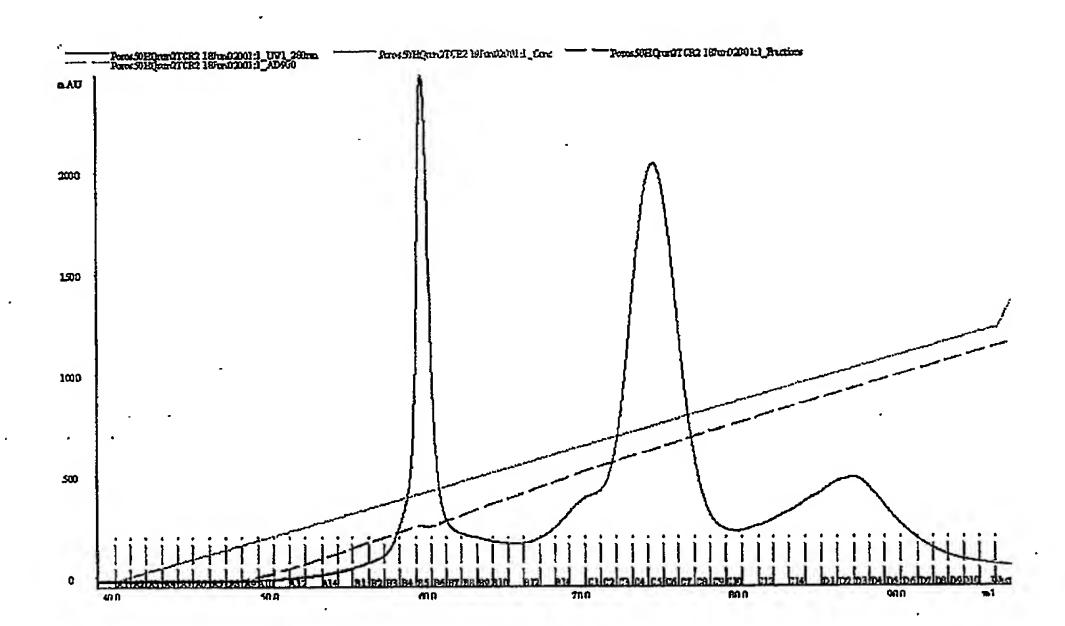


Figure 36

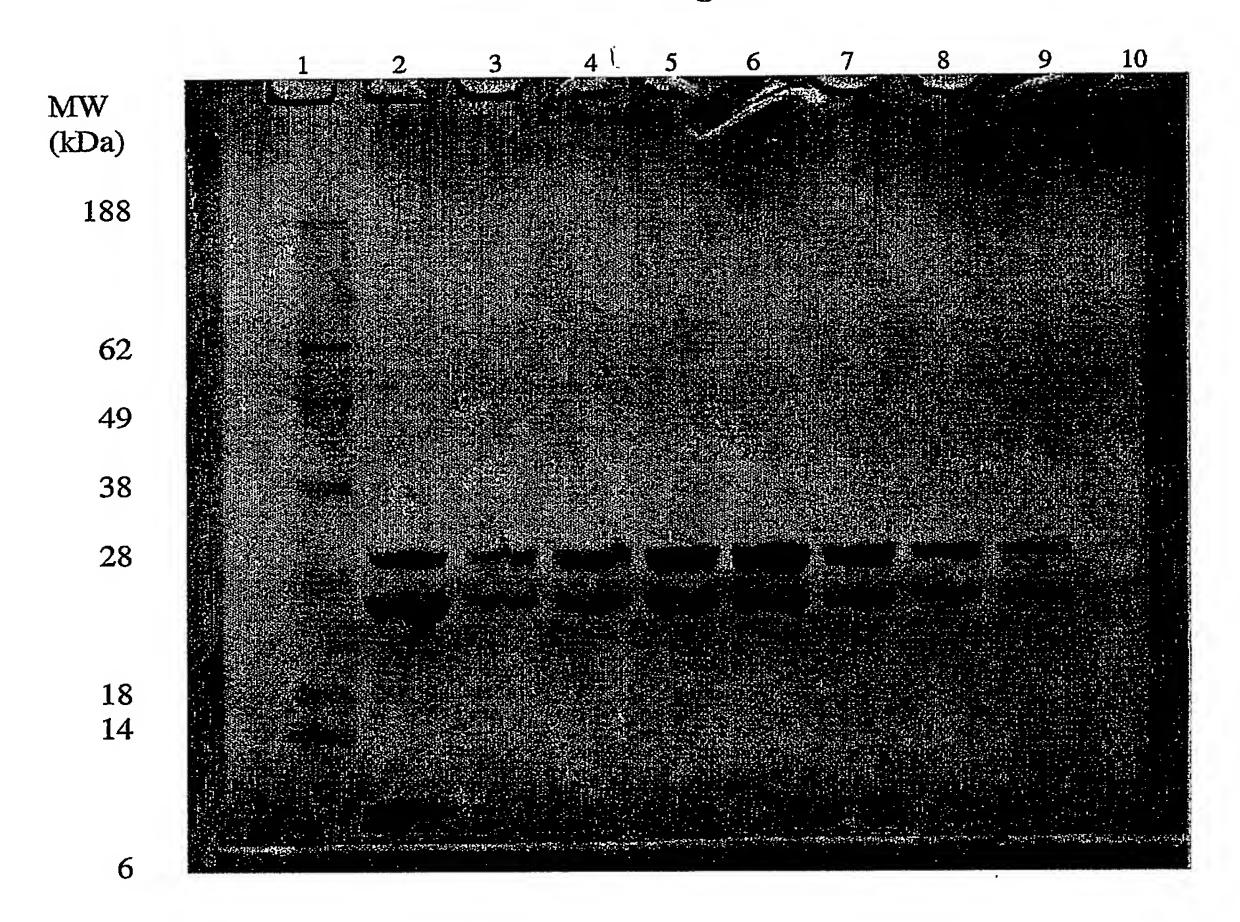


Figure 37

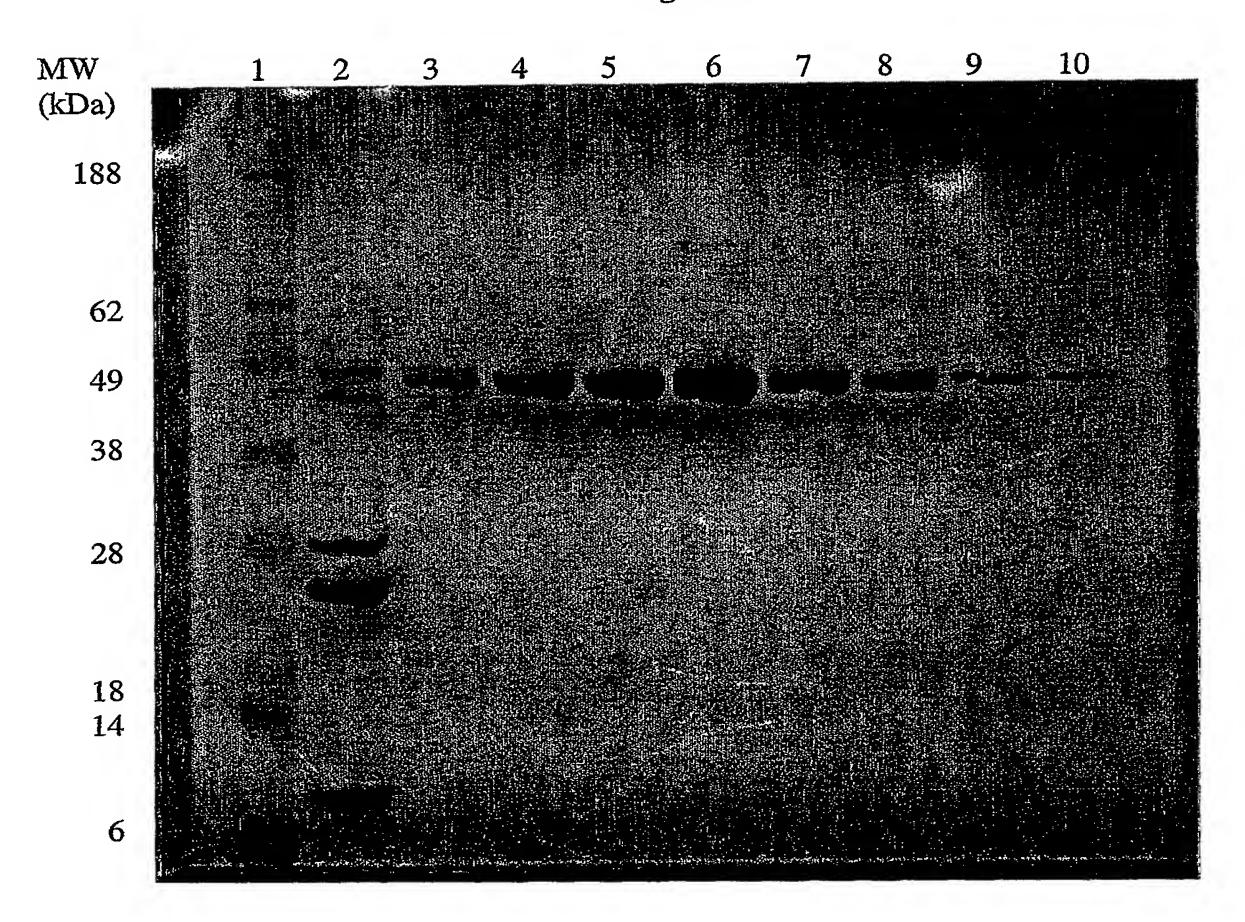


Figure 38

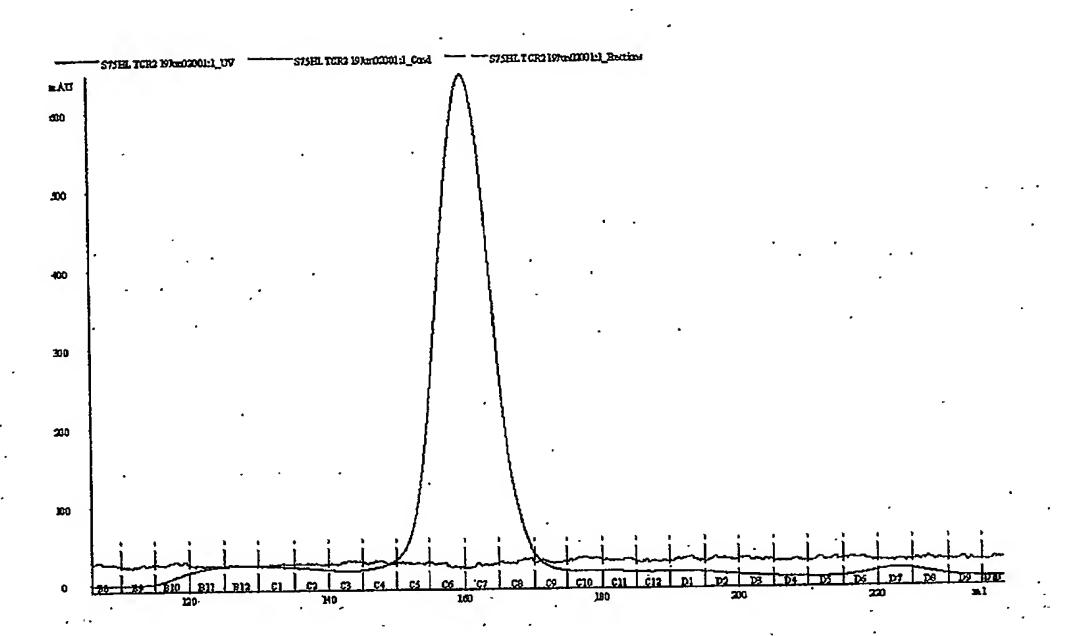


Figure $39a - T48 \rightarrow C \alpha$ chain

Figure 39b – T48 \rightarrow C α chain

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY SNGDKEDGRF

TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF GAGTQVVVTP DIQNPDPAVY

QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS DVYITDKCVL DMRSMDFKSN SAVAWSNKSD

FACANAFNNS IIPEDTFFPS PESS*

Figure 40a – T45 –> C alpha chain DNA Sequence

Figure 40b - T45→C alpha chain Amino Acid Sequence

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY SNGDKEDGRF

TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF GAGTQVVVTP DIQNPDPAVY

QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS DVYICDKTVL DMRSMDFKSN SAVAWSNKSD

Figure 41a - S61→C alpha chain DNA Sequence

Figure 41b – S61→C alpha chain Amino Acid Sequence

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS

DVYITDKTVL DMRSMDFKSN CAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure 42a - L50→C alpha chain DNA Sequence

Figure 42b - L50→C alpha chain Amino Acid Sequence

MQ

K1EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS

DVYITDKTVC DMRSMDFKSN SAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure $43a - Y10 \rightarrow C \alpha$ chain

Figure $43b - Y10 \rightarrow C$ \alpha chain

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVC QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS

DVYITDKTVL DMRSMDFKSN SAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure $44a - S15 \rightarrow C \alpha$ chain

Figure 44b $-S15 \rightarrow C \alpha$ chain

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDCKSSDK SVCLFTDFDS QTNVSQSKDS

DVYITDKTVL DMRSMDFKSN SAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure $45a - L12 \rightarrow C \alpha$ chain

Figure $45b - L12 \rightarrow C \alpha$ chain

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QCRDSKSSDK SVCLFTDFDS QTNVSQSKDS

DVYITDKTVL DMRSMDFKSN SAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure $46a - V22 \rightarrow C \alpha$ chain

Figure 46b – V22 \rightarrow C α chain

MQ

K1EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDSKSSDK SCCLFTDFDS QTNVSQSKDS

DVYITDKTVL DMRSMDFKSN SAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure $47a - M52 \rightarrow C \alpha$ chain

Figure 47b – M52 \rightarrow C α chain

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS

DVYITDKTVL DCRSMDFKSN SAVAWSNKSD FACANAFNNS IIPEDTFFPS PESS*

Figure $48a - Y43 \rightarrow C \alpha$ chain

Figure $48b - Y43 \rightarrow C \alpha$ chain

MQ

K₁EVEQNSGPL SVPEGAIASL NCTYSDRGSQ SFFWYRQYSG KSPELIMSIY

SNGDKEDGRF TAQLNKASQY VSLLIRDSQP SDSATYLCAV TTDSWGKLQF

GAGTQVVVTP DIQNPDPAVY QLRDSKSSDK SVCLFTDFDS QTNVSQSKDS

Figure 49a – Ser57→C β chain

Figure 49b Ser57 \rightarrow C β chain

M				
N ₁ AGVTOTPKE	OVLKTGQSMT	LQCAQDMNHE	YMSWYRQDPG	MGLRLIHYSV
GAGITDOGEV	PNGYNVSRST	TEDFPLRLLS	AAPSQTSVYF	CASRPGLAGG
RPEOYFGPGT	RLTVTEDLKN	VFPPEVÄVFE	PSEAEISHTQ	KATLVCLATG
FYPDHVELSW	WVNGKEVHSG	VCTDPQPLKE	QPALNDSRYA	LSSRLRVSAT
FWODPRNHFR	COVOFYGLSE	NDEWTQDRAK	PVTQIVSAEA	WGRAD*

Figure $50a - Ser 77 \rightarrow C \beta$ chain

Figure 50b Ser77 \rightarrow C β chain

M

N1AGVTQTPKF QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV

GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG

RPEQYFGPGT RLTVTEDLKN VFPPEVAVFE PSEAEISHTQ KATLVCLATG

FYPDHVELSW WVNGKEVHSG VSTDPQPLKE QPALNDSRYA LCSRLRVSAT

FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*

Figure $51a - Ser17 \rightarrow C \beta$ chain

atgaacgctggtgtcactcagaccccaaaattccaggtcctgaagacaggacaga
gcatgacactgcagtgtgcccaggatatgaaccatgaatacatgtcctggtatcg
acaagacccaggcatggggctgaggctgattcattactcagttggtgctggtatc
actgaccaaggagaagtccccaatggctacaatgtctccagatcaaccacagagg
atttcccgctcaggctgctgtcggctgctccctcccagacatctgtgtacttctg
tgccagcaggccgggactagcgggagggcgaccagagcagtacttcgggccgggc
accaggctcacggtcacagaggacctgaaaaacgtgttcccacccgaggtcgctg
tgtttgagccaggtcacagagagatctcccacacccaaaaggccacactggtgtg
cctggccacaggcttctaccccgaccacgtggagetgagctggtgggtgaatggg
aaggaggtgcacagtggggtcagcacagacccgcagccctcaaggagcagcccg
cctcaatgactccagatacgctctgagcagcccctcaaggagcacctt
ctggcaggacccccgcaaccacttccgctgtcaagtccagttctacggccacctt
ctggcaggaccccgcaaccacttccgctgtcaagtccagtcaccagatcgcc
gagaatgacgagtggacccaggatagggccaaacccgtcacccagatcgtcagcg
ccgaggcctggggtagagcagaccaa

Figure 51b Ser17 \rightarrow C β chain

M	•		•	
N_1 AGVTQTPKF	QVLKTGQSMT	LQCAQDMNHE	YMSWYRQDPG	MGLRLIHYSV
GAGITDQGEV	PNGYNVSRST	TEDFPLRLLS	AAPSQTSVYF	CASRPGLAGG
RPEQYFGPGT	RLTVTEDLKN	VFPPEVAVFE	PCEAEISHTQ	KATLVCLATG
FYPDHVELSW	WVNGKEVHSG	VSTDPQPLKE	QPALNDSRYA	LSSRLRVSAT
FWQDPRNHFR	CQVQFYGLSE	NDEWTQDRAK	PVTQIVSAEA	WGRAD*

Figure $52a - Val 13 \rightarrow C \beta$ chain

Figure 52 Val 13 \rightarrow C β chain

```
M

N<sub>1</sub>AGVTQTPKF QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV
GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG
RPEQYFGPGT RLTVTEDLKN VFPPEVACFE PSEAEISHTQ KATLVCLATG
FYPDHVELSW WVNGKEVHSG VSTDPQPLKE QPALNDSRYA LSSRLRVSAT
FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*
```

Figure $53a - Asp 59 \rightarrow C \beta$ chain

Figure 53b Asp 59 \rightarrow C β chain

M N_1 AGVTQTPKF QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG RPEQYFGPGT RLTVTEDLKN VFPPEVAVFE PSEAEISHTQ KATLVCLATG FYPDHVELSW WVNGKEVHSG VSTCPQPLKE QPALNDSRYA LSSRLRVSAT FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*

Figure $54a - \text{Arg } 79 \rightarrow C \beta \text{ chain}$

Figure 54b Arg 79 \rightarrow C β chain

M N_1 AGVTQTPKF QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG RPEQYFGPGT RLTVTEDLKN VFPPEVAVFE PSEAEISHTQ KATLVCLATG FYPDHVELSW WVNGKEVHSG VSTDPQPLKE QPALNDSRYA LSSCLRVSAT FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*

Figure $55a - Phe 14 \rightarrow C \beta$ chain

Figure 55b Phe 14 \rightarrow C β chain

M				
N. AGVTOTPKF	QVLKTGQSMT	LQCAQDMNHE	YMSWYRQDPG	MĢLRLIHYSV
GAGTTDOGEV	PNGYNVSRST	TEDFPLRLLS	AAPSQTSVYF	CASRPGLAGG
BDEOAEGBGL	RLTVTEDLKN	VFPPEVAVCE	PSEAEISHTQ	KATLVCLATG
FVDDHVELSW	WVNGKEVHSG	VSTDPQPLKE	QPALNDSRYA	LSSRLRVSAT
FWODPRNHFR	COVOFYGLSE	NDEWTQDRAK	PVTQIVSAEA	WGRAD*

Figure $56a - Gly 55 \rightarrow C \beta$ chain

Figure 56b Gly 55→C β chain

```
M N_1AGVTQTPKF QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG RPEQYFGPGT RLTVTEDLKN VFPPEVAVFE PSEAEISHTQ KATLVCLATG FYPDHVELSW WVNGKEVHSC VSTDPQPLKE QPALNDSRYA LSSRLRVSAT FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*
```